BEAMER 7R

Beam Moving Head – Powered by 7R Lamp

USER MANUAL

PLEASE READ THE INSTRUCTIONS CAREFULLY BEFORE USE

TECSHOW

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Section 1. Getting Started

- *Unpacking*
- *Safety Instruction*

Unpacking

- *1pc fixture (lamp installed)*
- *1pc User Manual*
- *1pc Power Cable*
- *1pc Signal Cable*
- *2pc Fast-lock Omega Clamp (1/4 turn)*

Thanks for using our BEAMER 7R moving beam. Carefully unpack the box and check the contents to ensure that all parts are present and in good conditions. If anything damaged during transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If the fixture must be returned to manufacturer, it is important that the fixture be returned in the original manufacturer box and packing.

Safety Instruction

For your safe ， please read this user manual carefully before turn on the fixture. This machine should be operated by qualified engineer !

- Please conserve this manual as operation guidance. If you sell this product to other user, please make sure that they also receive this user manual.

- Always make sure that you are connecting to the proper voltage and the line voltage not higher than stated on the decal or rear panel of the fixture.

- This lighting is intended to indoor use only. To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable, explosive or corrosive materials surrounded in 10 /*-meters while operating.

- The unit must be installed in a location with adequate ventilation, at least 5m away from adjacent surfaces. Be sure that no ventilation slots are blocked.

- Fixture may carry high heat, do not aim at objective exceeding 2 minutes.

- Safe wire should be used to install machine. Bearing of safe wire should be 3 times of the machine weight.

- Always disconnect from the power source before servicing or replacing fuse/lamp and be sure to replace with same fuse/lamp size and type. Cut off power before moving, repairing and cleaning the machine.

- To avoid electric shock, all fixtures must be connected to circuits with a suitable ground.

- Always secure fixture using a safety chain and carrying handles. Never carry the fixture by its cord.

- Do not operate at ambient temperatures higher than 104ºF (40ºC).

- In case of failure or malfunction occurred, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Buy the same spare parts/components from manufacturer directly.

- Make sure the power cord is never crimped or damaged.

- Avoid direct eye exposure to the light source while it is on.

- Do not power on and power off the fixture in a short time.

- When use DMX controller, please make sure that there is no interference sources (e.g. intercom, high frequency radio waves and radiation source.

Caution!

There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. If exceptional problem happen, please contact related after-sale department or manufacturer.
Any damage that cased by violating this manual is out of insurance, our company will not take the responsibility.

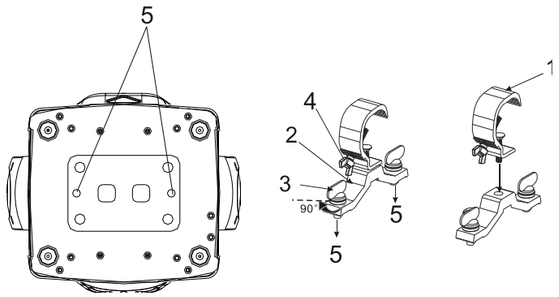
Section 2. Set Up

- *Installation*
- *Controlling Board*
- *Machine connection*

Installation

- This machine should be mounted through the screw holes of truss. Safety wire is a must to fix fixture well. Make sure truss and safety wire have strong load capacity to bear 3 times weight than fixture at least.

- This machine should be installed by qualified technician.



Controlling Board

1. LCD Display.

Shows menu

2. Display Control Button.

Buttons: Menu, UP, Down, Enter

3. Power Switch

Power on and power off

4. DMX In

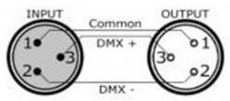
Connect signal cable to let DMX signal input

5. DMX Out

Connect signal cable to let DMX signal output

Machine Connection

Cables must have a male XLR connector on one end and a female XLR connector on the other end.



A word on termination: DMX is a resilient communication protocol, however errors still occasionally occur. Termination reduces signal errors, and therefore best practices include use of a terninator in all circumstances. If you are experiencing problems with erratic fixture behavior, especially over long signal cable runs, a terminator may help improve performance.

To build your own DMX Terminator: Obtain a 120-ohm, 1/4-watt resistor, and wire it between pins 2&3 of the last fixture. They are also readily available from specialty retailers.

Complimentary signal cable can transmits signals to 20 unit fixtures at most. Signal amplifier is a must to connect more fixtures

Section 3. Troubleshooting

-Troubleshooting

Problem	Probable cause(s)	Remedy
No response from fixture when power is applies	No power to fixture	Check power cables
	Primary fuse blown	Replace fuse
	Secondary fuse blown	Replace fuse
Fixture resets but does not respond correctly to controller(DMX mode operation)	Controller not connected	Connect controller
	Incorrect addressing of the fixtures	Check address setting on fixture and controller
	Bad data link connection	Inspect cables and correct poor connections and/or broken cables.
	Conflict between tracking and vector control	Eliminate scene cross-fade on controller
	Data link not terminated	Insert termination plug in output of last fixture
	Defective fixture or 2 devices transmitting on link	Bypass fixtures one at a time until normal operation is regained:unplug both connectors and connect them directly together
Colors cannot be mixed	Random color mixing is on	Turn off random color mixing
Fixture does not reset correctly	Electronic or mechanical failure	Contact service technician
No light, lamp cuts out intermittently,or burns out too quickly	Lamp missing or blown	Disconnect fixture and replace lamp
	Fixture or lamp is too hot	Allow fixture to cool. If problem persists,contact service technician

Section 4. Reference

- Control menu
- DMX protocol
- Specification

Control Menu - Main Menu

Beam 230 Light		
	Welcome to use	
	Wait	
DMX Address		
	Reset All	
	Reset Pan Tilt	
	Reset Gobo	
	Reset Color	
	Reset Focus	
	Reset Dimmer	
	Reset Prism	
	Reset Fog	
	Factory	
Manual		
	CH:01	[0~255]
	CH:02	[0~255]
	CH:03	[0~255]
	CH:04	[0~255]
	CH:05	[0~255]
	CH:06	[0~255]
	CH:07	[0~255]
	CH:08	[0~255]
	CH:09	[0~255]

	CH:10	[0~255]
	CH:11	[0~255]
	CH:12	[0~255]
	CH:13	[0~255]
	CH:14	[0~255]
	CH:15	[0~255]
	CH:16	[0~255]
Mode		
	DMX512	
	Auto Run	
	Slave	
Lamp		
	On	
	Off	
Color		
	On	
	Off	
Tilt		
	Yes	
	No	
Pan		
	Yes	
	No	

Control Menu - Setting up Menu

Menu	Function	Enter	Operation	
MENU	DMX	Press ENTER	To 15CH / 16CH, ENTER to save.	
	Pan		To YES/ NO, ENTER to save. YES stands for anticlockwise run; NO for clockwise run	
	Tilt		To YES/ NO, ENTER to save. YES stands for anticlockwise run; NO for clockwise run	
	Color		To YES/NO, ENTER to save. YES is color fine, NO is color skip	
	Lamp		To YES/NO, ENTER to save. Off for lamp off, ON is lamp on.	
	Mode		To Mode Slave: master/slave mode, ENTER to save	
	Manual		Choose CH1 to CH16 manually-ENTER-UP/ DOWN to adjust DMX value press ENTER to save	
	Restore	UP / DOWN	Reset ALL	Press ENTER, system reset
			Reset Pan Tilt	Press ENTER, Pan/Tilt reset
			Reset Gobo	Press ENTER, Gobo reset
			Reset Color	Press ENTER, color reset
			Reset Focus	Press ENTER, focus reset
			Reset Dimmer	Press ENTER, dimmer reset
			Reset Prism	Press ENTER, prism reset
			Reset Fog	Press ENTER, for effect reset
			Mode Auto run	Pre-program mode, enter to save
			Restore Factory	Spare

Remark: Each MENU level should press ENTER to save data. If need to back to last class, press MENU;

If no any operation for 30 seconds, LCD display will turn off automatically.

DMX Protocol

15 CHANNELS

Channel	Function	Effect
1	Pan scan	000-255 0°-540°
2	Tilt scan	000-255 0°-265°
3	Pan scan 16 Bit	000-255
4	Tilt scan 16 Bit	000-255
5	Pan/Tilt speed	000-255 from slow to fast
6	Dimmer	000-255 from dark to bright
7	Shutter	1-50 lamp on 51-240 strobe from slow to fast 241-255 lamp off
8	Frost	000-255 from strong to impotent
9	Color	000-255 from color to color
10	Gobo	000-255 from gobo to gobo
11	Prism	0-127 non- change 128-255 8 facet prism
12	Prism rotate	0-106 clockwise rotate from slow to fast 107-180 anticlockwise from slow to fast 181-255 prism rotate and shake from slow to fast
13	Focus	[0~255]
14	Lamp control	0-99 non- change 100-105 lamp off (keep on 3 seconds) 106-199 non- change 200-205 lamp on (keep on 3 seconds) 206-255 non- change
15	Reset	0-254 non- change 255 (keep on 3 seconds then reset)

DMX Protocol

16 CHANNELS

Channel	Function	Effect
1	Color	000-255 0-0 open 6-6 open/ren 12-12 red 18-18 red/yellow 24-24 yellow 30-30 yellow/blue 36-36 blue 42-42 blue/green 48-48 green 54-54 green/orange 60-60 orange 66-66 orange/pink 72-72 pink 78-78 pink/magenta 84-84 magenta 90-90 Mag/Purple 96-96 Purple 102-102 Purple/Amber 108-108 Amber 114-114 Amber/Cyan 120-120 Cyan 126-126 Cyan/Li.gr 132-132 Light green 138-138 Li.gr/CTB 8000 144-144 CTB 8000 150-150 CTB8000 / CTC 190 156-156 CTC 190 162-162 CTC 190 / CTC 260 168-168 CTC 260 174-174 CTC 260 / OPEN 180-180 Open 186-219 Scroll clockwise fast to slow 220-255 Scroll anticlockwise slow to fast

2	Shutter	000-000 Closed 001-050 Open 051-240 strobe from slow to fast 241-255 Open
3	Dimmer	000-255 from dark to bright
4	Gobo	000-255 0-3 open 4-7 Gobo 1 8-11 Gobo 2 12-15 Gobo 3 16-19 Gobo 4 20-23 Gobo 5 24-27 Gobo 6 28-31 Gobo 7 32-35 Gobo 8 36-39 Gobo 9 40-43 Gobo 10 44-47 Gobo 11 48-51 Gobo 12 52-55 Gobo 13 56-59 Gobo 14 60-63 Gobo 15 64-67 Gobo 16 68-71 Gobo 17 72-113 Scroll clockwise fast to slow 114-118 No Scroll 119-160 Scroll anticlockwise slow to fast 161-165 No Scroll 166-171 Gobo 1 shake 172-177 Gobo 2 shake 178-183 Gobo 3 shake 184-189 Gobo 4 shake 190-195 Gobo 5 shake 196-201 Gobo 6 shake 202-207 Gobo 7 shake 208-213 Gobo 8 shake 214-219 Gobo 9 shake 220-225 Gobo 10 shake 226-231 Gobo 11 shake 232-237 Gobo 12 shake 238-243 Gobo 13 shake 244-249 Gobo 14 shake 250-255 Gobo 15 shake

5	Prism	000-127 open 128-255 prism
6	Prism	001-043 No spin 044-106 clockwise rotate from slow to fast 107-116 safe 117-180 anticlockwise from fast to slow 181-191 safe 192-255 prism rotate and shake from slow to fast
7	RESERVED	
8	Frost effect	000-255 0%-100% Frost
9	Focus	000-255 0%-100% Focus from distant to near
10	Pan	000-255 0°-540°
11	Pan fine	
12	Tilt	000-255 0°-265°
13	Tilt fine	000-244 safe 244-255 Reset all
14	RESERVED	
15	Reset	000-244 safe 244-255 Reset all
16	Lamp control	0-100 safe 101-105 Lamp OFF (lamp switch off passing through the unused range and staying 3s in Lamp OFF levels.) 106-200 safe 201-205 Lamp ON (lamp switch on passing through the unused range and staying 3s in Lamp ON levels.)

Specification:

Voltage: 100V-240V

Frequency: 50/60Hz

Power Consumption: 380W

Halogen lamp: 230W lamp

Shutter: 1-13t/s

Color temperature: 8000K

Control Mode: DMX/sound active/auto/ master-slave

Signal control protocol: USITT DMX512

DMX512 Channel: 16 channels, 2 modes

Gobo wheel: 11+7 beam size, bilateral flowage effect, gobo motor-driven focusing function

Color wheel: 14+open, rainbow effect

Scan: Pan 540 degree, Tilt 265 degree

Effect wheel: 8 facet prism & frost, the beam light can be convert into atomize effect

Shutter: 1-13t/s

Dimmer: 0-100% linear

Focus: electrical focusing

Beam angle: 0°~2.5°

Safety protection: cutting the power off automatically when the machine overheat or the system malfunction

Level of Protection: IP20

Stock: Clean and dry place

Running temp.: -10°C~40°C

Physical Parameters:

Fixture connection: 3-pin XLR data in/out, Neutrik PowerCon

Cooling: fan forced convection

Housing: plastic

Color: black

Machine size 372*290*500mm

Machine weight: 17.2 kg